



## EXAMINATION ANNOUNCEMENT

# CALIFORNIA ENERGY COMMISSION

## ENERGY COMMISSION SPECIALIST I (Technology Evaluation and Development)

**OPEN**

### EXAMINATION PLAN – NO WRITTEN TEST IS REQUIRED

The entire examination will consist of a Supplemental Application weighted 100%. In order to obtain a position on the eligible list, a minimum rating of 70% must be attained in the interview.

Applicants in the examination will be required to submit responses to questions contained in the Supplemental Questionnaire Application which are designed to identify job achievements in specific areas that demonstrate the ability to successfully perform at this level. **Applicants who do not submit complete information will be eliminated from the examination.**

### FILING INSTRUCTIONS

**CONTINUOUS TESTING-NO FINAL FILING DATE**-Testing is considered continuous as dates can be set at any time. You may apply only once in any consecutive 12 month period. State Applications (STD 678) will be accepted on a continuous basis and examinations will be scheduled as needed. State Applications and/or resumes submitted via facsimile (FAX) machines, or electronically mailed (e-mail) will not be accepted.

#### FILE BY MAIL OR IN PERSON WITH:

California Energy Commission  
Selection, Training & EEO Office (AES-(TED))  
1516 Ninth Street, MS-52  
Sacramento, CA 95814

**Please submit one (1) State Application (STD 678) AND one (1) Supplemental Questionnaire Application for EACH classification level for which you are applying.**

#### DO NOT SEND APPLICATIONS AND SUPPLEMENTAL APPLICATIONS TO THE STATE PERSONNEL BOARD

A mandatory Supplemental Questionnaire Application **must** be completed and submitted with a standard State Application (STD 678). To obtain the Supplemental Questionnaire Application, go to <http://jobs.spb.ca.gov/openxrd.cfm?exc=8ERD102> and for the State Application, go to <http://www.spb.ca.gov/jobs/stateapp.htm>. You can also obtain State Applications at the State Personnel Board, any Employment Development Department in California and the California Energy Commission. **State Applications received without the Supplemental Questionnaire Application or vice versa will not be accepted.** If you have any questions, please call the Selection Office at (916) 653-6532.

### SPECIAL TESTING ARRANGEMENTS

If you have a disability and need special testing arrangements, mark question #2 of the "Application for Examination." You will be contacted to make specific arrangements.

\*\*\*\*\*  
ENERGY COMMISSION SPECIALIST I (TED) [www.energy.ca.gov](http://www.energy.ca.gov)  
BJ54 – 4184 (916) 653-6532  
8ERD1-02 Final Filing Date: Continuous testing  
\*\*\*\*\*

EQUAL EMPLOYMENT OPPORTUNITY TO ALL REGARDLESS OF RACE, COLOR, CREED, NATIONAL ORIGIN, ANCESTRY, SEX, MARITAL STATUS, DISABILITY, RELIGIOUS OR POLITICAL AFFILIATION, AGE OR SEXUAL ORIENTATION

---

**SALARY RANGE**\$4,833-\$5,831

---

**REQUIREMENT FOR  
ADMITTANCE TO THE  
EXAMINATION**

It is **your responsibility** to make sure you meet the education and/or experience requirements stated below by the final filing date. Your signature on your application indicates you have read, understood and possess the basic qualifications required. **All applications/resumes must include: "to" and "from" dates (month/day/year); time base (full-time/part-time/number of hours per week/month); and civil service class titles where applicable. Applications/resumes received without this information will be rejected.**

---

**MINIMUM  
QUALIFICATIONS**

Qualifying experience may be combined on a proportionate basis if the requirements stated below include more than one pattern and are distinguished as "Either" I, "or" II, etc. For example, candidates possessing qualifying experience amounting to 50% of the required time of Pattern I, and additional experience amounting to 50% of the required time of Pattern II, may be admitted to an examination as meeting 100% of the overall experience requirement.

**Either I**

In the California state service, one year of experience performing technology evaluation and development duties in areas related to energy technologies, energy research, development and demonstration projects; advanced combustion technologies; transportation energy technologies and alternative fuels; efficiency improving energy technology and fuels; including duties such as analysis of economic, environmental and public health impacts in California at a level of responsibility equivalent to Associate Energy Specialist.

**Or II**

**Experience:** Four years of responsible technical experience in one or more of the areas described in Pattern I above, including three years of experience above the trainee level. A master's degree in a field related to one of the specialties may be substituted for one year of experience; while a doctoral degree may be substituted for two years of the required experience. Only one postgraduate degree may be counted towards experience. (Completion of dissertation research for a doctoral degree in a field appropriate to one of the Energy Commission specialties may be substituted for up to one year of the required experience.)

(Experience in the California state service applied toward this pattern must include at least one year performing the duties in a class with a level of responsibility equivalent to Associate Energy Specialist.)

**Education:** The following education is required when non-California state service experience is used to qualify at any level. Equivalent to graduation from college. Additional experience may be substituted for the required education on a year-for-year basis.

---

---

**THE POSITION**

The Energy Commission Specialist I (Technology Evaluation and Development) Specialist I positions are characterized by incumbents independently performing more complex, sensitive and responsible energy-related work which requires, on a regular basis, a high level of knowledge, skill and ability which is demonstrably above the journey level. Incumbents in this class will usually possess technical expertise in one or more energy-related fields. Incumbents perform a broad range of duties within the program specialty. Incumbents may exercise some lead responsibility as Project Managers. Incumbents may be responsible for minor Commission reports and may lead other Energy Commission Specialists I in carrying out project responsibility.

**Positions exist in Sacramento with the California Energy Commission.**

---

**SCOPE**

Questions in the Supplemental Application are designed to test broad knowledge of the topic under consideration and candidates should be prepared to respond to a wide variety of issues, both technical and procedural.

---

**KNOWLEDGE OF**

1. A wide range of energy technologies and associated deployment and use issues;
  2. Energy supply and demand forecasts and analytic methodologies, energy policy issues affecting or resulting from energy technology development, and energy project management techniques;
  3. California Public Resource Code pertaining to energy resources conservation and development;
  4. Principles of physical sciences and engineering involved in energy resource development, conversion, distribution, and conservation;
  5. Principles of econometric and end-use energy demand forecasting;
  6. Energy sources and use within the California economy;
  7. Principles of engineering economics, financial analysis, and economic theory as it pertains to energy supply and demand;
  8. Energy technology costs and cost-accounting methods;
  9. Recent research and development projects related to the use of petroleum, natural gas, biomass and other synthetic fuels;
  10. Energy technology environmental impacts, including emissions, waste streams, volumes and characteristics;
  11. Energy technology public health impacts, air quality impacts and risk analysis;
  12. General provisions of social and economic implications of geothermal, solar, wind and other renewable energy development, technology and fuel demonstrations, resource planning and facility construction;
  13. Recent research and development projects in electrical, nuclear, geothermal, and other energy sources and their related fuels and technologies;
  14. Federal and State energy policy;
  15. Decision theory, probabilistic risk assessment, and techniques of comparative evaluation, and Federal, State and local government, utilities and private agencies in energy research and regulation.
-

---

**ABILITY TO**

1. Reason logically and creatively, evaluate and apply a variety of analytical and research methods for the purpose of systematic, critical, and thorough analysis of energy problems or prospective issues leading to formulation, testing, or revision of State and/or Federal energy policies;
  2. Utilize available computer systems for data base and/or computational applications;
  3. Manage contracts;
  4. Analyze energy data and present ideas and information effectively both orally and in writing;
  5. Communicate in both written and oral formats;
  6. Prepare and give testimony in planning and regulatory proceedings;
  7. Develop and use complex computer programs and analytic models;
  8. Develop and evaluate fuel alternatives;
  9. Gain and maintain the confidence and cooperation of those contacted during the course of work;
  10. Evaluate and quantify the effect of research, development and demonstration programs on energy systems;
  11. Analyze situations accurately and take effective actions, and act independently within the guidelines set forth by the Commission;
  12. Present ideas and analysis cogently and effectively;
  13. Consult with and advise other staff management, Commissioners, or others on the relative merits of specific energy technologies and the impact of various energy policies.
- 

**ELIGIBLE LIST  
INFORMATION**

A departmental open eligible list will be established for the California Energy Commission. The list will be abolished 12 months after it is established unless the needs of the service and condition of the list warrant a change in this period.

---

**VETERANS  
PREFERENCE POINTS**

WILL NOT BE GRANTED IN THIS EXAMINATION

---

**CAREER CREDITS**

DO NOT APPLY IN THIS EXAMINATION

---

**ONLY INDIVIDUALS LAWFULLY AUTHORIZED TO WORK IN THE UNITED STATES WILL BE HIRED**

**GENERAL INFORMATION**

**For an examination** without a written feature it is the candidate's responsibility to contact the Examination Unit at (916) 653-6532, three weeks after the final filing date if he/she has not received a progress notice. If a candidate's notice of oral interview or performance test fails to reach him/her prior to the day of the interview due to a verified postal error, he/she will be rescheduled upon written request.

**If you meet the requirements** stated on the reverse, you may take this examination, which is competitive. Possession of the entrance requirement does not assure a place on the eligible list. Your performance in the examination will be compared with the performance of the others who take this test, and all candidates who pass will be ranked according to their scores.

**The California Energy Commission** reserves the right to revise the examination plan to better meet the needs of the service if the circumstances under which this examination was planned change. Such revision will be in accordance with civil service laws and rules and all competitors will be notified.

**Eligible Lists:** Eligible lists established by competitive examination, regardless of date, must be used in the following order: 1) sub-divisional promotional, 2) departmental promotional, 3) multi-departmental promotional, 4) service-wide promotional, 5) open eligible list. When there are two lists of the same kind, the older must be used first.

**General Qualifications:** Candidates must possess essential personal qualifications including integrity, initiative, dependability, good judgment and ability to work cooperatively with others; and a state of health consistent with the ability to perform the assigned duties of the class. A medical examination may be required. In open examinations, investigation may be made of employment records and personal history, and fingerprinting may be required.

**Veteran's Preference Points:** Veteran's preference credit is granted only on open list resulting from entrance examinations. These credits are granted to all competitors who qualify for, and have requested these points and who are successful in all parts of the examination. (The examination announcement indicates if veteran's preference points will apply.) Requests for veteran's preference, together with proof of eligibility should be submitted to: State Personnel Board, 801 Capitol Mall, Sacramento, CA 95814, Attention Veteran's desk, MS-37. It is necessary to establish eligibility only once.

**Career Credit:** A competitor who passes an open, non-promotional civil service examination and who has permanent civil service status (or who has a mandatory right of reinstatement to a position with permanent civil service status) is eligible to receive three career credit points added to his/her earned score. Career credits are not given to persons who have permissive reinstatement privileges. The distinction between mandatory right of reinstatement and permissive reinstatement privilege is outlined in Government Code Sections 19140-19143. (The examination announcement indicates if career credit points will apply.) Veteran's points are not granted in such examinations.

**DO NOT SEND APPLICATIONS TO THE STATE PERSONNEL BOARD**

California Relay (Telephone) Service for the Deaf or Hearing Impaired  
From TDD Phones: 1-800-735-2929 – From Voice Phones 1-800-735-2922

TDD is a Telecommunication Device for the Deaf and is reachable only from telephones equipped with a TDD device.

\*\*\*\*\*  
\*\*\*\*\*

IT IS AN OBJECTIVE OF THE STATE OF CALIFORNIA TO ACHIEVE A DRUG-FREE WORK PLACE. ANY APPLICANT FOR STATE EMPLOYMENT WILL BE EXPECTED TO BEHAVE IN ACCORDANCE WITH THIS OBJECTIVE BECAUSE THE USE OF ILLEGAL DRUGS IS INCONSISTENT WITH THE LAW OF THE STATE, THE RULES GOVERNING CIVIL SERVICE, AND THE SPECIAL TRUST PLACED IN PUBLIC SERVANTS.



**CALIFORNIA ENERGY COMMISSION  
SELECTION TRAINING AND EEO OFFICE  
ASSOCIATE ENERGY SPECIALIST  
AND/OR  
ENERGY COMMISSION SPECIALIST I  
TECHNOLOGY EVALUATION AND DEVELOPMENT (TED)  
SUPPLEMENTAL APPLICATION QUESTIONNAIRE**

The California Energy Commission's (CEC) Associate Energy Specialist (TED) and Energy Commission Specialist I (TED) examinations are being given on an open basis. Both examinations will consist solely of this self-assessment Supplemental Application Questionnaire.

**This questionnaire is your entire exam** and is designed to elicit a range of specific information regarding each candidate's knowledge, abilities, and experience to effectively perform the duties relative to the classification(s). Candidates are responsible for reading all of the material provided prior to completing this questionnaire. Responses will be evaluated using predetermined rating criteria. In order to obtain a position on the eligible list, a minimum rating of 70% must be attained. Please answer questions completely since incomplete responses and omitted information cannot be considered and/or assumed. *Resumes, letters of reference, and other materials **will not be evaluated or considered** as responses to items in the Supplemental Application Questionnaire.*

**NOTE:** Failure to meet the entrance requirements and/or to complete this questionnaire accurately will result in elimination from this examination.) *Candidates who fail to follow the instructions and/or **who solicit input or assistance from others to complete this questionnaire** will be eliminated from the examination.*

IT IS IMPORTANT THAT YOU RETAIN A COPY OF THIS SUPPLEMENTAL APPLICATION QUESTIONNAIRE FOR YOUR RECORDS. The California Energy Commission will **NOT** provide you a copy of your supplemental application questionnaire.

**THIS AFFIRMATION MUST BE COMPLETED**

I hereby certify and understand that the information provided by me (without assistance from others) on this Supplemental Application Questionnaire is true and complete to the best of my knowledge and contains no willful misrepresentation or falsifications. I understand this information may be verified. I also understand that if it is discovered that I have made any false representations, I will be removed from the examination process, removed from the list resulting from the examination, may not be allowed to compete in future examinations for State employment and I may be subject to prosecution for misdemeanor or felony offenses under California law. Additionally, State employees may have adverse action taken against them up to and including dismissal.

**SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**NAME (PRINT):** \_\_\_\_\_

**EXAMINATION TITLE:** \_\_\_\_\_

The completed Supplemental Application Questionnaire **and** Standard State Application (STD. 678) can be personally **hand delivered** and/or **mailed** to:

**California Energy Commission  
Selection, Training and EEO (AES & ECS I (TED))  
1516 9<sup>th</sup> Street, MS-52  
Sacramento, CA 95814**

Facsimile (FAX) or electronically mailed (e-mail) applications **will not** be accepted.

Failure to submit your Supplemental Application Questionnaire **with** your Standard State Application (STD. 678) will result in elimination from the examination.

**Associate Energy Specialist (TED) and/or  
Energy Commission Specialist I (TED)**

**Supplemental Application Questionnaire**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**PART I - EMPLOYMENT HISTORY**

Instructions: Please describe your work experience as it relates to the Associate Energy Specialist (TED) and/or Energy Commission Specialist I (TED) positions. Begin with your most recent position. The *EXPERIENCE CODE* will be used in Part II to identify where you worked. You may include additional pages if necessary.

**EXPERIENCE CODE A**

Employer Name: \_\_\_\_\_

Employer Location: City: \_\_\_\_\_ State: \_\_\_\_\_

Dates of Employment: From: \_\_\_\_\_ To: \_\_\_\_\_

Supervisor: \_\_\_\_\_ Telephone Number: \_\_\_\_\_

**EXPERIENCE CODE B**

Employer Name: \_\_\_\_\_

Employer Location: City: \_\_\_\_\_ State: \_\_\_\_\_

Dates of Employment: From: \_\_\_\_\_ To: \_\_\_\_\_

Supervisor: \_\_\_\_\_ Telephone Number: \_\_\_\_\_

**EXPERIENCE CODE C**

Employer Name: \_\_\_\_\_

Employer Location: City: \_\_\_\_\_ State: \_\_\_\_\_

Dates of Employment: From: \_\_\_\_\_ To: \_\_\_\_\_

Supervisor: \_\_\_\_\_ Telephone Number: \_\_\_\_\_

**EXPERIENCE CODE D**

Employer Name: \_\_\_\_\_

Employer Location: City: \_\_\_\_\_ State: \_\_\_\_\_

Dates of Employment: From: \_\_\_\_\_ To: \_\_\_\_\_

Supervisor: \_\_\_\_\_ Telephone Number: \_\_\_\_\_

**Associate Energy Specialist (TED)  
and/or  
Energy Commission Specialist I (TED)  
Supplemental Application Questionnaire**

**PART II - WORK EXPERIENCE**

**Associate Energy Specialist (TED)** positions are full journey person levels in the class series. Incumbents independently perform responsible, varied, complex technical and analytical work. Positions at this level are nonsupervisory, but may serve as lead over lower-level technical and analytical staff.

**Energy Commission Specialist I (TED)** positions are characterized by incumbents independently performing more complex, sensitive and responsible energy-related work which requires, on a regular basis, a high level of knowledge, skill and ability which is demonstrably above the journey level. Incumbents in this class will usually possess technical expertise in one or more energy-related fields. Incumbents perform a broad range of duties within the program specialty. Incumbents may exercise some lead responsibility as Project Managers. Incumbents may be responsible for minor Commission reports and may lead other Energy Commission Specialists I in carrying out project responsibility.

**Instructions**

**Step 1:** In the *Experience Code* column, use the codes from **PART I** of this questionnaire to indicate where you performed the activity and/or acquired the task or knowledge. You may list more than one code per item, if applicable.

**Step 2:** For each item listed on page 4, in rows “1” through “10,” place an “X” in the column that most accurately represents the experience you have and the amount of time your experience represents.

**SAMPLE**

		CODE	EXPERIENCE				AMOUNT OF TIME			
		Experience Code(s)	I have had no education, training, or experience with this task.	I have had education or training on this task, but no application on the job.	I have performed this task on the job under normal supervision.	I have performed this task independently on the job with little supervision.	I possess less than one (1) year of experience.	I possess one (1) to three (3) years of experience.	I possess four (4) to five (5) years of experience.	I possess more than five (5) years of experience.
1.	(Sample Item) Prepares reports for company.	A & C				X			X	



# Associate Energy Specialist (TED) and/or Energy Commission Specialist I (TED)

## Supplemental Application Questionnaire

### PART II-WORK EXPERIENCE (CONTINUED)

QUESTION # 1		PRINT NAME _____	CODE	EXPERIENCE				AMOUNT OF TIME			
INSTRUCTIONS: In the <i>Experience Code</i> column, use the codes from <b>PART I</b> of this form to indicate where you performed the activity or task. You may list more than one code per item, if applicable.			Experience Code(s) (FROM PART I)	I have had no education, training, or experience with this.	I have had education or training, but no application on the job.	I have performed this task on the job under normal supervision.	I have performed this task independently with little supervision.	I possess less than one (1) year of	I possess one (1) to three (3) years of experience.	I possess four (4) to five (5) years of experience.	I possess more than five (5) years of experience.
1.	Knowledge of dynamic interactions of supply and demand in energy markets.										
2.	Data analysis methods and techniques to draw appropriate conclusions and make recommendations regarding a set of energy related data.										
3.	Make presentations to co-workers, governmental personnel, community groups, professional/scientific societies, etc., to facilitate the sharing of information regarding energy-related topics.										
4.	Apply basic scientific or engineering principles related to energy technologies.										
5.	Knowledge of mathematical principles and concepts required to analyze complex energy-related problems.										
6.	Write reports, memos, letters, summaries, notes, and other job-related documents using proper sentence structure, grammar, punctuation, and spelling, to ensure complete written materials.										
7.	Exercise sound judgment when making decisions based upon the facts and available information in accordance with laws, regulations, policies, procedures, technical principles, divisional goals and objectives, in the completion of work assignments.										
8.	Identify facts and implications related to a situation and the pros and cons of proposed alternatives before drawing conclusions and making recommendations.										
9.	Use a personal computer to input data, access information, utilize the internet, email, and/or create documents, using various software applications.										
10.	Skill to negotiate and compromise when resolving issues involving differing opinions.										

# Associate Energy Specialist (TED) and/or Energy Commission Specialist I (TED)

## Supplemental Application Questionnaire

### PART III - PROJECT EXPERIENCE

List no more than three (3) of the largest energy related projects you have worked on. LIST EACH PROJECT SEPARATELY.

<p><u>QUESTION # 2</u></p> <p>Name: _____</p> <p><u>List of projects</u></p> <p>For each project you identify, fill in each box as follows:</p> <p>1) <u>Length of project</u>: Equivalent to full-time basis (in months)</p> <p>2) <u>Purpose of projects</u>-Check only ONE box</p> <p>3) <u>Your role(s) on project</u>-Identify the length of time in months. (Equivalent to full- time basis) Total should not exceed time in box 1.</p> <p>4) <u>Your project responsibilities</u>-Percent of time you worked on the project. (Percent of time should not equal more than 100%)</p> <p>5) <u>Project team</u>- Total number of people on the team</p>	<p><b>(1)</b></p> <p>Length of project</p> <p>**</p> <p>Months</p>	<p><b>(2)</b></p> <p>Purpose of Project</p> <p>Check only ONE box</p>			<p><b>(3)</b></p> <p>Your Role(s) on Project</p> <p>Identify in months. (**Time should equal box 1**)</p>			<p><b>(4)</b></p> <p>Your Project Responsibilities</p> <p>Should not equal more than 100%</p>			<p><b>(5)</b></p> <p>Project Team</p> <p>Total number of people on team</p>		
	<p>Equivalent to full-time basis</p>	<p>Research, Development &amp; Demonstration</p>	<p>Deployment</p>	<p>Policy Development</p>	<p>Principle Investigator/Researcher</p>	<p>Project Team Leader</p>	<p>Team Member</p>	<p>Final Products</p>	<p>Project Plans/Approaches</p>	<p>Project Milestones</p>	<p>One to two members</p>	<p>Three to ten members</p>	<p>Over ten members</p>
1)													
2)													
3)													

**Associate Energy Specialist (TED)  
and/or  
Energy Commission Specialist I (TED)  
Supplemental Application Questionnaire**

**PART IV – NARRATIVE QUESTIONS**

You are being given two (2) questions on the following page for which you are to provide a narrative response.

Instructions

- Your response to each question **must be typed** in Arial, using 12 point font or larger.
- Your response to each question **must be limited to** one (1) page per question (for a total of two (2) pages).
- Answer each question on a **separate page** and indicate the corresponding number for each response.
- Include the name of the examination, your name, and date on each page.

**SAMPLE**

**Associate Energy Specialist (TED) and/or Energy Commission Specialist I (TED)**

**Name:**\_\_\_\_\_

**Date:**\_\_\_\_\_

**Question #1. ....**

**Associate Energy Specialist (TED)  
and/or  
Energy Commission Specialist I (TED)  
Supplemental Application Questionnaire**

**PART IV – NARRATIVE QUESTIONS**

**Question #3**

**DATA ANALYSIS AND TOOLS**

Suppose you are asked to determine whether the State should promote electric vehicles over the next ten years.

- a) How would you conduct an analysis to estimate the financial and social impacts of this policy?**
- b) Describe the elements of your proposed analysis.**

**Question #4**

**PROJECT PLANNING DEVELOPMENT**

Suppose you have been assigned to lead a team in preparing a technology development or commercialization plan in your area or expertise.

**List the steps you would take to initiate, plan, manage, and complete this assignment.**